PATENT COOPERATION TREATY

REC'D 22 JUN 2005

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From the	ITV	10	WIFO							
INTERNATIONAL SEARCHING AUTHOR		23/70	PCT							
То:		- 1	FUI							
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·		WRITT	EN OPINION OF THE							
see form PCT/ISA/220		INTERNATIONAL SEARCHING AUTHORITY								
		(PCT Rule 43 <i>bis</i> .1)								
		′,	Of field feelers,							
·		Date of mailing								
·		(day/month/year) see	e form PCT/ISA/210 (second sheet)							
		FOR FURTHER ACTION See paragraph 2 below								
Applicant's or agent's file reference see form PCT/ISA/220										
	International filing date (dav/month/year)	Priority date (day/month/year)							
	01.12.2004	-	10.12.2003							
International Patent Classification (IPC) or bo	th national classification	and IPC								
H01L23/485, H01L21/60	ni menorial diassillation									
Applicant PHILIPS INTELLECTUAL PROPER	TY & STANDARDS	S GMBH								
Their out teleprotein										
	es relating to the fol	llowing items:								
This opinion contains indication	is relating to the lo	Wing items.								
 ☑ Box No. I ☐ Box No. II ☐ Box No. III ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 										
					 □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 					
☐ Box No. VII Certain defects in the international application										
☐ Box No. VIII Certain observations on the international application										
2. FURTHER ACTION			,							
	Il usually be considered to be a									
written opinion of the International	Il Preliminary Examin	to be the IDEA and the	chosen IPFA has notifed the							
the applicant chooses an Authorit International Bureau under Rule 6	ty other than this one 66.1 <i>bis</i> (b) that written	opinions of this Intern	ational Searching Authority							
will not be so considered.										
If this opinion is, as provided abo	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 22 months from the priority date,									
submit to the IPEA a written reply	/ together, where app of Form PCT/ISA/220	ropriate, with amending or before the expiration	n of 22 months from the priority date,							
whichever expires later.	.,	•	•							
For further options, see Form PC	T/ISA/220.									
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3. For further details, see notes to r	J. 11 J. 11 J. 12									
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Name and mailing address of the ISA:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/052628

	Box N		Basis of the opinion
1.	the la	ngua	d to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	la (L	ingua inder	Rules 12.3 and 23.1(b)).
2.	With r	egar sary	d to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. typ	e of r	naterial:
		as	sequence listing
		tab	ple(s) related to the sequence listing
	b. for	mat c	of material:
		in '	written format
		in	computer readable form
	c. tim	e of t	filing/furnishing:
		со	ntained in the international application as filed.
		file	ed together with the international application in computer readable form.
	. 🗆	fui	mished subsequently to this Authority for the purposes of search.
3	1	has b copie	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto leen filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as oppriate, were furnished.
	۸ddi	tional	Comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/052628

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or Industrial applicability; citations and explanations supporting such statement

1. Statement

Novetty (N)

No:

No:

Yes: Claims Claims

Claims

1-5

Inventive step (IS)

Yes: Claims

1-5

1-5

Industrial applicability (IA)

Yes: Claims Claims No:

2. Citations and explanations

see separate sheet

PCT/IB2004/052628

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US 2003/178644 A1 (LEE JIN-HYUK ET AL) 25 September 2003 (2003-09-25)

D2: US 2002/187634 A1 (SARAN MUKUL ET AL) 12 December 2002 (2002-12-12)

D3: EP-A-0 875 934 (TEXAS INSTRUMENTS INCORPORATED) 4 November 1998 (1998-11-04)

- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-5 is not new in the sense of Article 33(2) PCT.
- 1.1 Document D1 (see figures 1, 2 and the corresponding text on paragraphs 10-16) discloses a semiconductor component comprising a semiconductor chip made of a doped silicon substrate 100, 102, which chip is doped into a semiconductor device and structured, and comprises an inner connection metallization 114 in a contact window, and said inner connection metallization 114 of said semiconductor chip is connected to the respective outer connection metalization by a wire bond connection (see D1, last line on paragraph 11), with the further features that the inner connection metallization 114 comprises a reinforcing system 108,110 having an open grid structure on the doped silicon substrate.
 The subject-matter of claim 1 on file does not difer therefrom.

In this respect it is noted that each of documents D2 (see figure 1-3 and the corresponding text on paragraphs 31-33) and D3 (see claims 1, 7 and 8 and the figures) discloses a reinforcing system for bond pads having an open grid structure. Claim 1 on file is merely describing a state of the art chip having bond pads reinforced by these known reinforcing systems. This subject-matter, if it is new at all, does not involve any inventive skill (Article 33(3) PCT).

1.2 The additional features of claim 2-5 are all known from each of documents D1 (see

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/052628

paragraphs 11, figures 1 and 2), D2 (see paragraphs 31 and 33; figures 3 and 6) and D3 (see claim 7; figures 1, 6 and 7).

Form PCT/ISA/237 (Separate Sheet) (Sheet 2) (EPO-January 2004)